



Hunters Point Radiological Program Update

Hunters Point Naval Shipyard
BCT Meeting
April 26, 2011



Overview



Radiological Project Work Overview

- Current Project Map
- SS/SD Removal and Building Survey Update
 - Crisp Rd.
 - Parcel C
 - Boiler Removal (B-521 & B-203) BONUS!
 - Parcel E 500-Series
 - Parcel D-1
- Gun Mole Pier Repair Update



2011 Radiological Projects



LEGEND

NAVY PROPERTY BOUNDARY (OFFSHORE)

PROJECT AREAS

- IMPACTED BUILDINGS OR SITES CONTROLLED BY TTEC
- IMPACTED SITES THAT HAVE OBTAINED REGULATORY RELEASE
- ERRG IR-07/18 CAP
- EMS BIN STORAGE
- MACTEC (ERS/JV) PIER REMOVAL
- SHAW D1
- SHAW PCB
- TTEC CRISP ROAD
- TTEC RSY'S
- TTEC PARCEL C
- TTEC PARCEL E 500 SERIES



RSY PADS





Crisp Rd/Parcel E SS/SD Removals & Building Surveys



- Crisp Rd SS/SD line removal, characterization, and remediation is complete
- Bldg 810 – CDPH performed Confirmation Survey on April 14, 2011
- Bldg 414 – Final FSS submitted, awaiting CDPH Confirmation Survey
- Site 701 – Draft FSS under RASO review
- Site 704 – Draft FSS under RASO review
- Bldg 707 Triangle – Complete SS/SD removal; Characterization and remediation of surface contamination on-going
- IR-04 Scrap Yard - Field work complete, awaiting off-site data



Parcel C

Storm Drain & Sewer Removals and Building Surveys



- SS/SD line removal commenced in Central Parcel C on January 4th
 - Excavated soil and pipe removal through April 13, 2011:
 - 9,159 linear feet of SS/SD lines removed
 - 16,341 cubic yards
 - 6 Survey Units currently being surveyed and sampled
 - 4 Survey Units awaiting offsite data prior to backfilling



Parcel C

Storm Drain & Sewer Removals and Building Surveys





Parcel C Building Surveys



- Building Final Status Surveys
 - Complete dismantling furnace boiler metal framework and removal of fuel piping in floor channels in Building 203, drafting TSP
 - Completed Initial Survey of Building 214, 241, 271, and 272 and data is under internal review
 - Preparing for SS/SD removal in Buildings 203, 241, 271, and 272
 - North Pier TSP and SS/SD removal activities on-hold, pier removal contractor using area



Building 203 Asbestos Wrapped Furnace



Hunters Point Shipyard, BCT, December 2, 2010



Asbestos Abatement



Hunters Point Shipyard, BCT, December 2, 2010



Exposed Firebrick in B203



Hunters Point Shipyard, BCT, December 2, 2010



Firebrick Removal



Hunters Point Shipyard, BCT, December 2, 2010



Hard Dirty Work



Hunters Point Shipyard, BCT, December 2, 2010



Asbestos and Firebrick Disposal



Hunters Point Shipyard, BCT, December 2, 2010



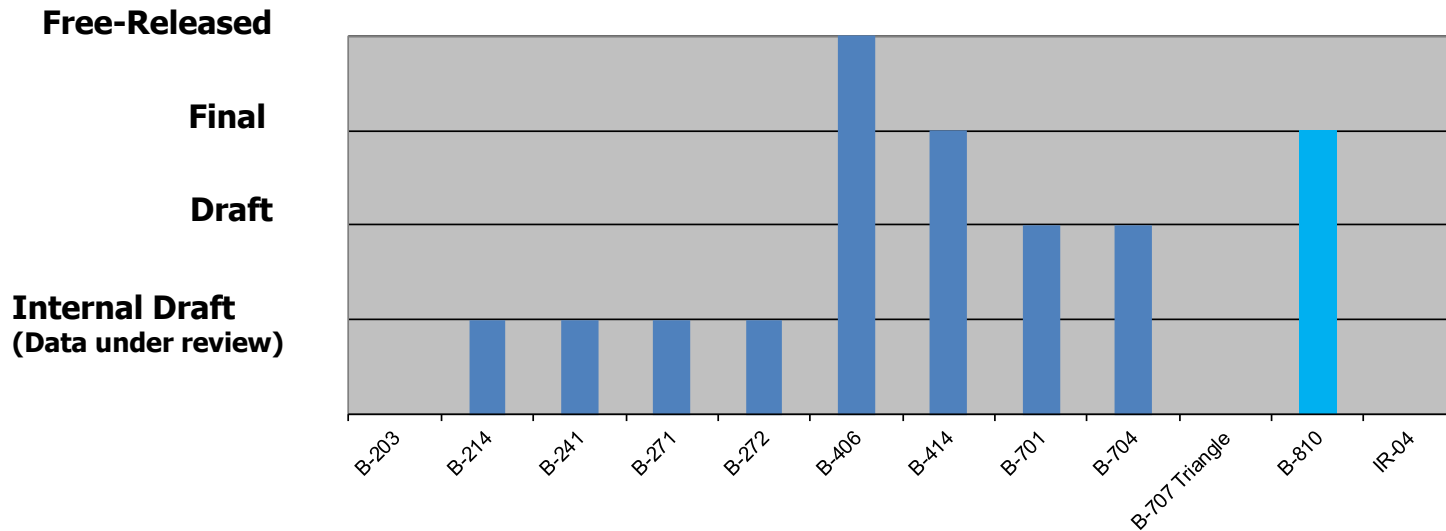
Abatement Complete & Removal of Stacks



Hunters Point Shipyard, BCT, December 2, 2010



Parcel C & Interior E Buildings/Sites Status



Waiting for concurrence for
Free-Release determination





Parcel E 500 Series



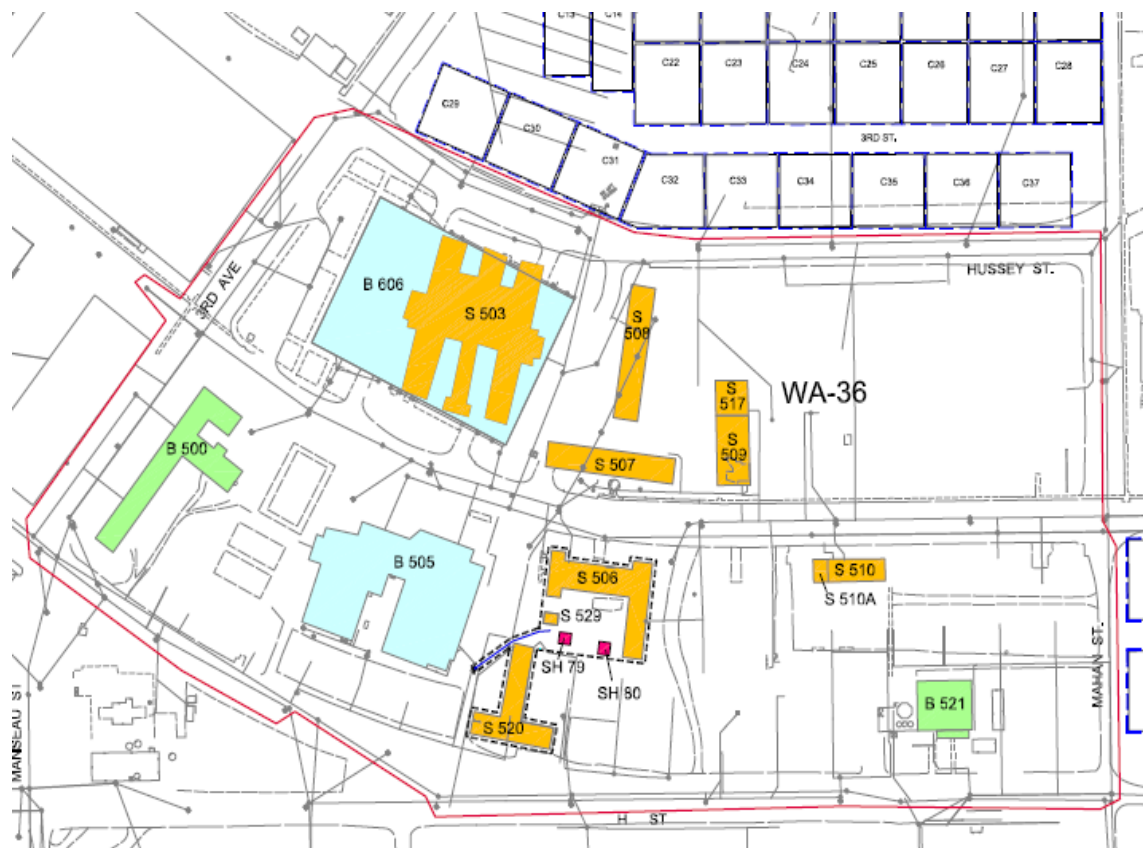
- Field Work
 - Site preparation, Dig Alert, and utility locator activities continue
 - Perform M&E Surveys on Debris
 - Commenced asbestos abatement and fire-brick removal activities in Building 521 furnace on April 6, 2011
- Draft TSPs for Former Building 507, 509, and 517 Sites under RASO review
- Coordination meeting held on April 4, 2011 with Navy, SFPD, and Tt for access to areas surrounding Building 606



Impacted Building and Sites Within Parcel E 500 Series Area



- LEGEND**
- WORK AREA BOUNDARY (WA-36)
 - RADIOACTIVE MATERIAL AREA
 - STORM DRAIN LINE
 - B NON-IMPACTED BUILDINGS
 - B IMPACTED BUILDINGS
 - S IMPACTED BUILDING SITES
 - SH IMPACTED SHACK SITES
 - RSY 2, 3 AND 4 SCREENING PADS





Parcel B & G Building Survey Status



- All Parcel B Building Surveys Complete
 - Building 140 Discharge Channel – CDPH performed Confirmation Survey on April 13, 2011
 - Building 140 Tech Memo under RASO review
- All Parcel G Building Surveys Complete and have been Free Released



On-site Laboratory Update



- New on-site radiological laboratory is fully operational have received 6150 samples from Shaw D-1, Shaw PCB, MACTEC, Tetra Tech-HPS, and Tetra Tech-Alameda.
- Since becoming operational on January 24, 2011, prepared and analyzed 6,841 samples



IR07/18 Modeling Update



- The Navy has prepared an internal draft for the Radiological Risk and Dose Modeling for Sites IR-7 and IR-18 using RESRAD
- Navy will schedule a meeting with DTSC/CDPH to discuss site specific modeling input parameters in detail with the agencies
- When site specific modeling input parameters are agreed upon, these will be utilized in the modeling, and a draft model will be submitted to the agencies for review



Parcel D-1 Current Field Work Status



- Storm Drain and Sanitary Sewer Removal
 - Pipe removal thru April 15th
 - 10,300 lineal feet





Asphalt Removal Gun Mole & South Pier



576,000 square feet of Asphalt removed from
Gun Mole and South Pier





Gamma Walk-Over Radiological Survey (Gun Mole Pier)





Parcel D-1 Current Field Work Status



- Gun Mole Pier
 - Completed building demolition for 11 buildings on the Gun Mole Pier and one on the South Pier
 - Completed gamma walk over survey and Field Instrument for the Detection of Low Energy Radiation (FIDLER) Survey for the rad impacted asphalt
 - 63 Survey Units evaluated. Twenty SUs showed detections above the investigation level and were further investigated. Sample results evaluated to date has not shown any indications of plutonium or its tracer, americium.
 - Completed removal and stockpiling of 462,000 sq ft (12,830 CY) asphalt, 14,800 ft rails and 6400 wooden ties



Parcel D-1 Current Field Work Status



- South Pier
 - Completed survey and sampling for all 13 Survey Units
 - Completed removal and stockpiling of 114,000 sq ft (3170 CY) asphalt, 9,700 ft rails and 4300 wooden ties
- Building 274
 - No detections above investigation Levels
 - Developing internal draft FSS Report



Parcel D-1 Current Field Work Status



- Building 383 Area
 - Completed building slab foundation and asphalt removal
 - Gamma scans and soil samples in progress
- Building 313,313A & 322 sites - Surveyed and Sampled
 - Elevated levels of Cesium 137 and Radium 226 above action limits
 - Revised TSP for additional survey, sampling & remediation
 - Remediation of an estimated 175 cu yds of soil and additional sampling
- Storm Drain and Sanitary Sewer Removal
 - 85% complete (10,300 lineal ft)
 - 15 % remaining primarily in the RSY 2 footprint (1,800 lin. ft)



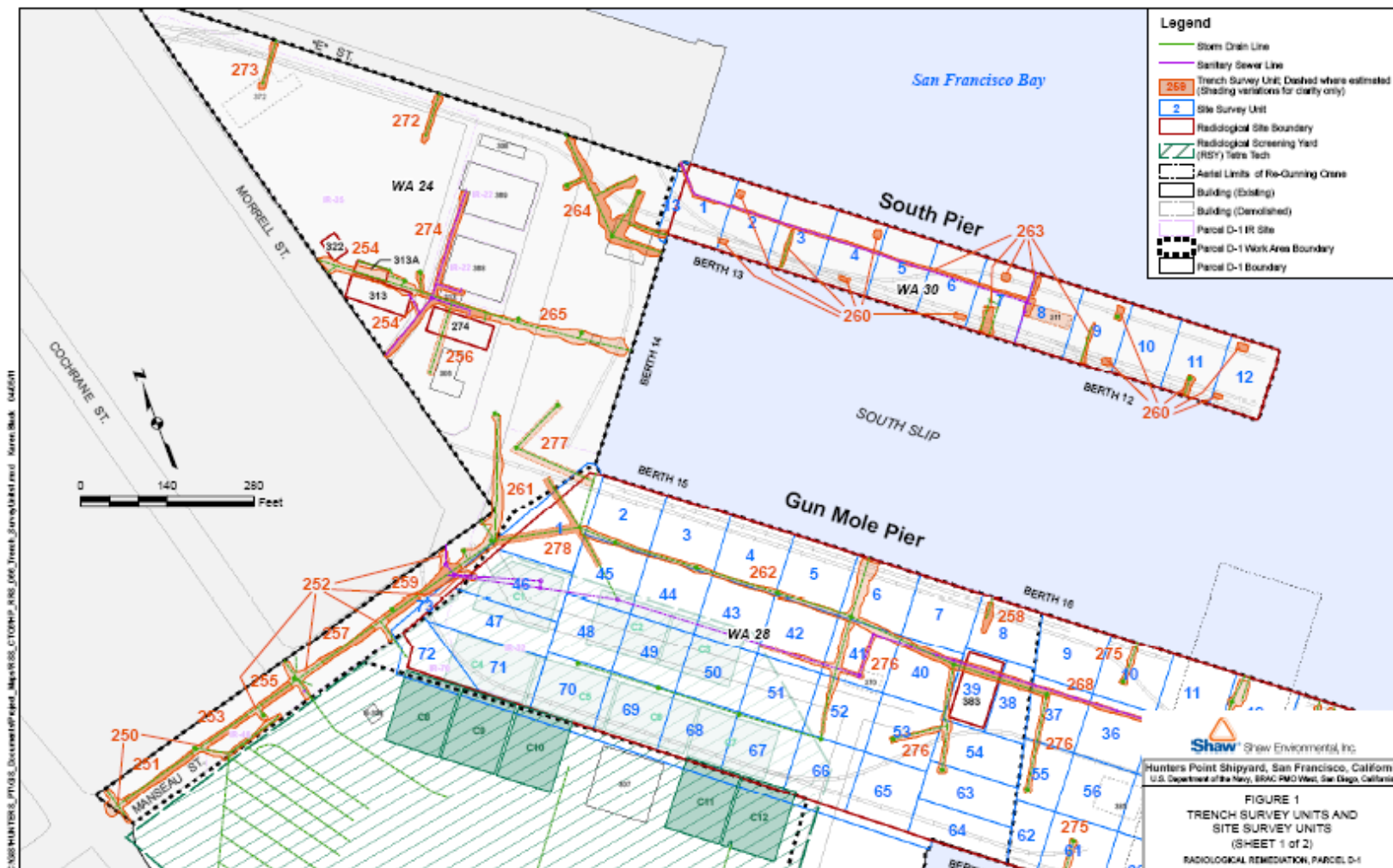
Parcel D-1 Upcoming Field Work



- Receive approval from Navy/RASO to release SD piping from Manseau St.
- Building 313, 313A & 322 sites – Perform additional survey, sampling, remediation
- Continue work under RSY 2 footprint
- Begin backfilling trenches with RASO approval of SUPRs
- Install storm water swale on Manseau St
- Mobilize and perform asphalt grinding and site restoration



Parcel D-1 Storm Drain & Sewer Removals Work Areas 24 and 30

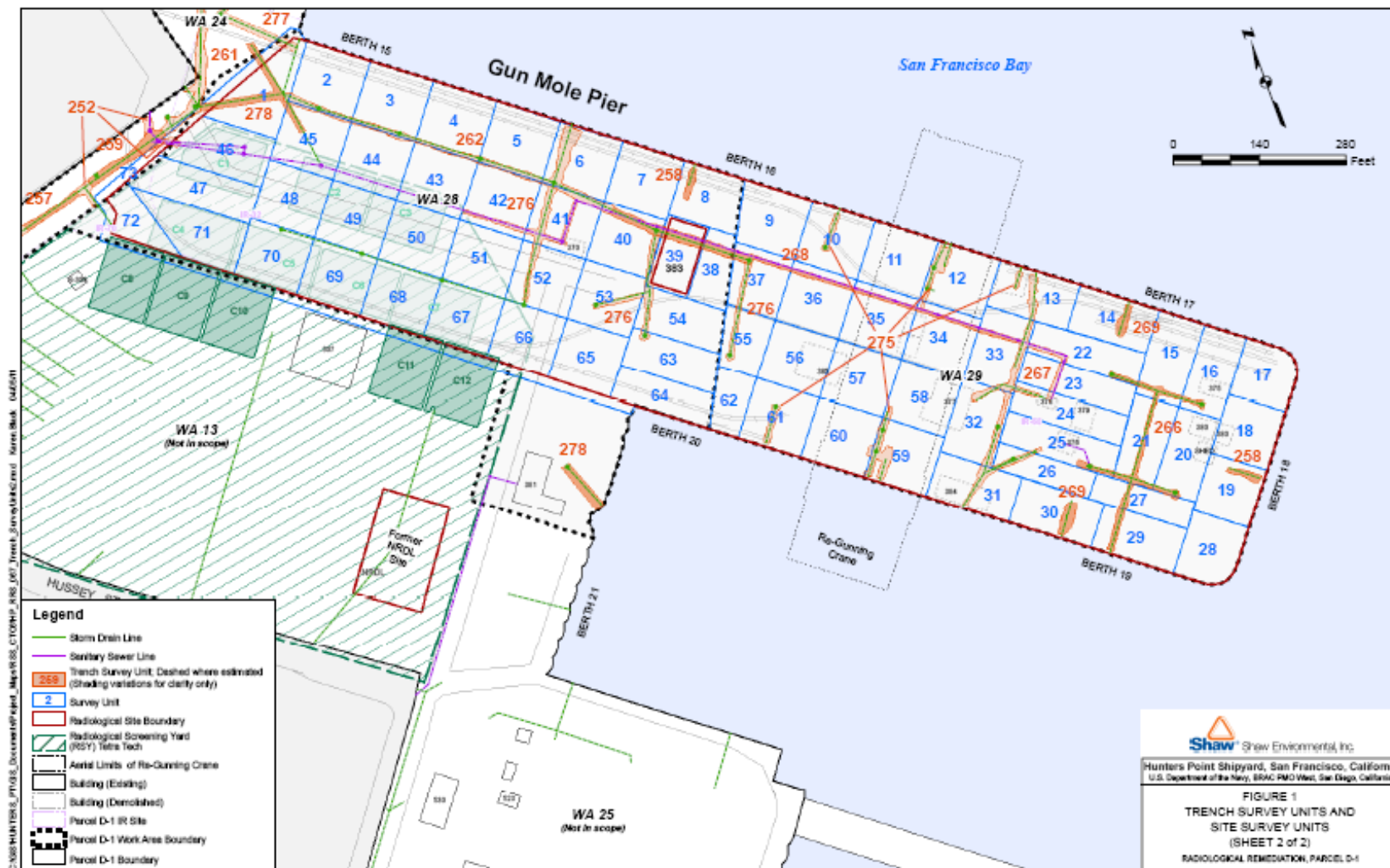




Parcel D-1

Storm Drain & Sewer Removals

Work Areas 28 and 29 (Gun Mole Pier)





Parcel D-1 Gun Mole Pier Repairs



- **Project Objective – Gun Mole Pier Stabilization**
 - Stabilize Portions of Gun Mole Pier for 5 Years of Weathering under Current Loads and Use
 - All work to be completed from the land side within the footprint of the existing Gun Mole Pier
- Perform low-tide and underwater inspections of Gun Mole pier
- Stabilize identified areas of Gun Mole pier
- Write Removal Action Completion Report (RACR)



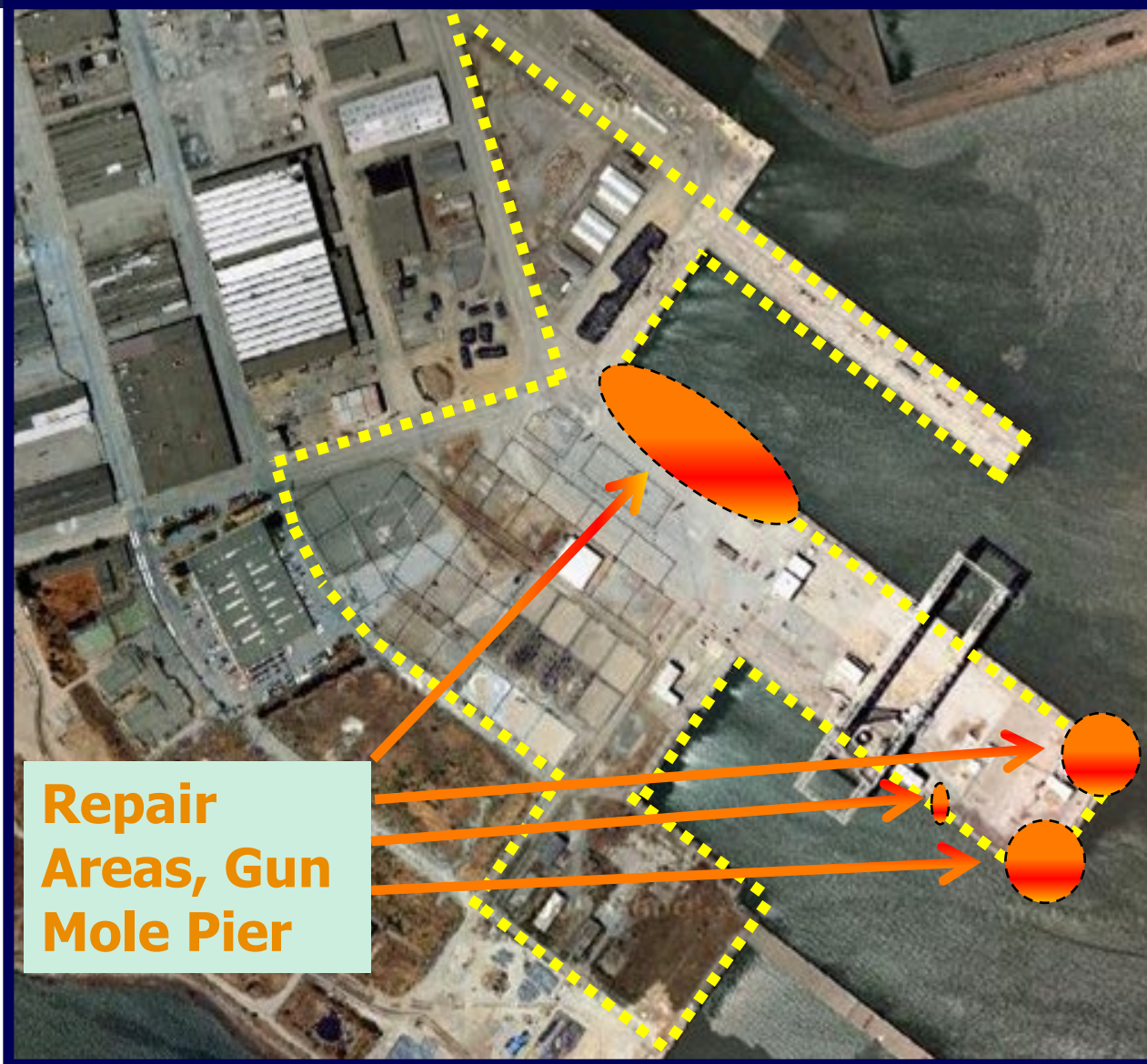
Schedule Milestones – Gun Mole Pier Repairs



Submit Work Plans	- May 2011
Mobilize to Field	- June 2011
Complete Pier Stabilization	- August 2011
Complete RACR	- April 2012



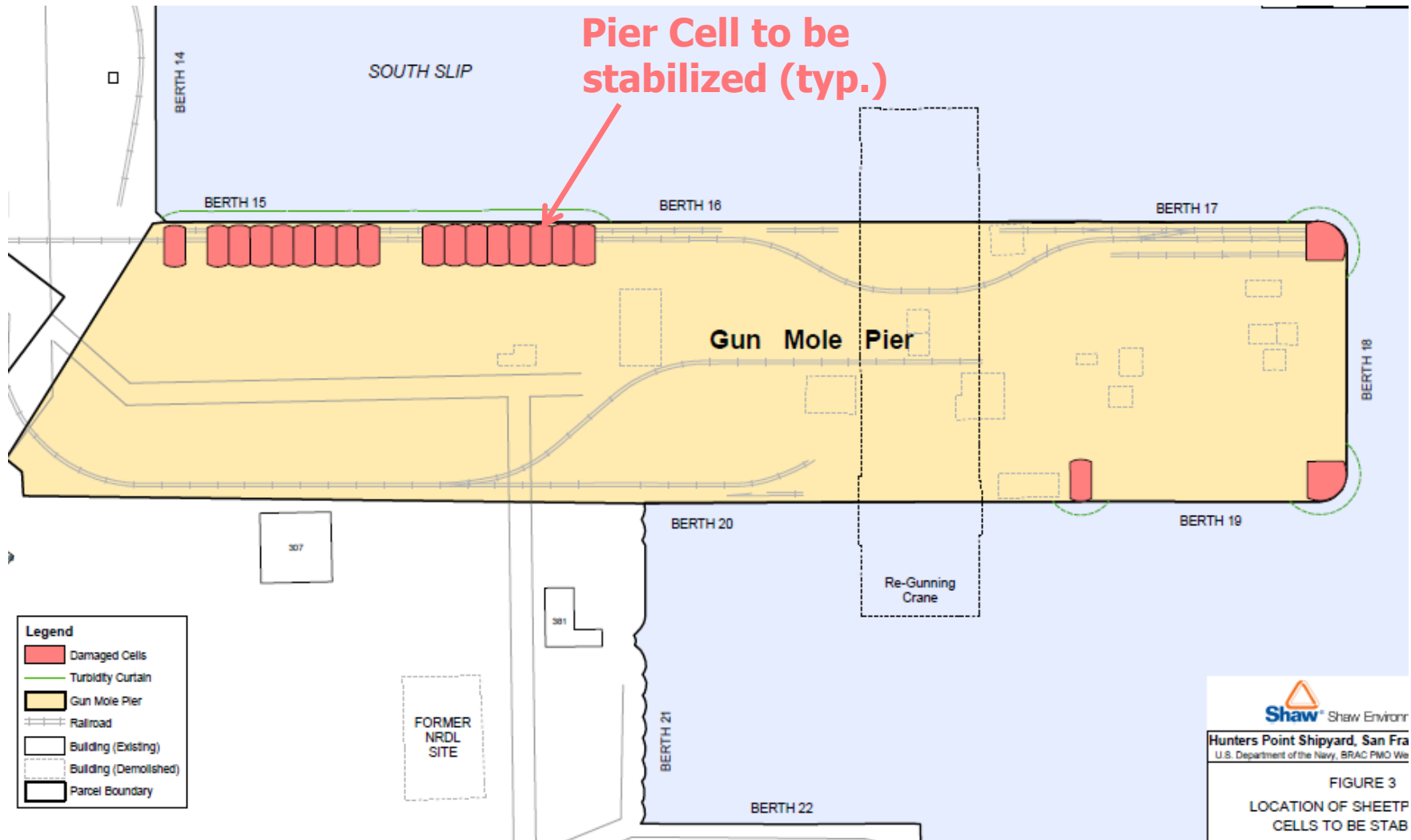
Gun Mole Pier Stabilization Areas



**Repair
Areas, Gun
Mole Pier**



Pier Cells Designated for Stabilization





Gun Mole Pier Eroded Area on NW Face



Berth 15,
South Slip



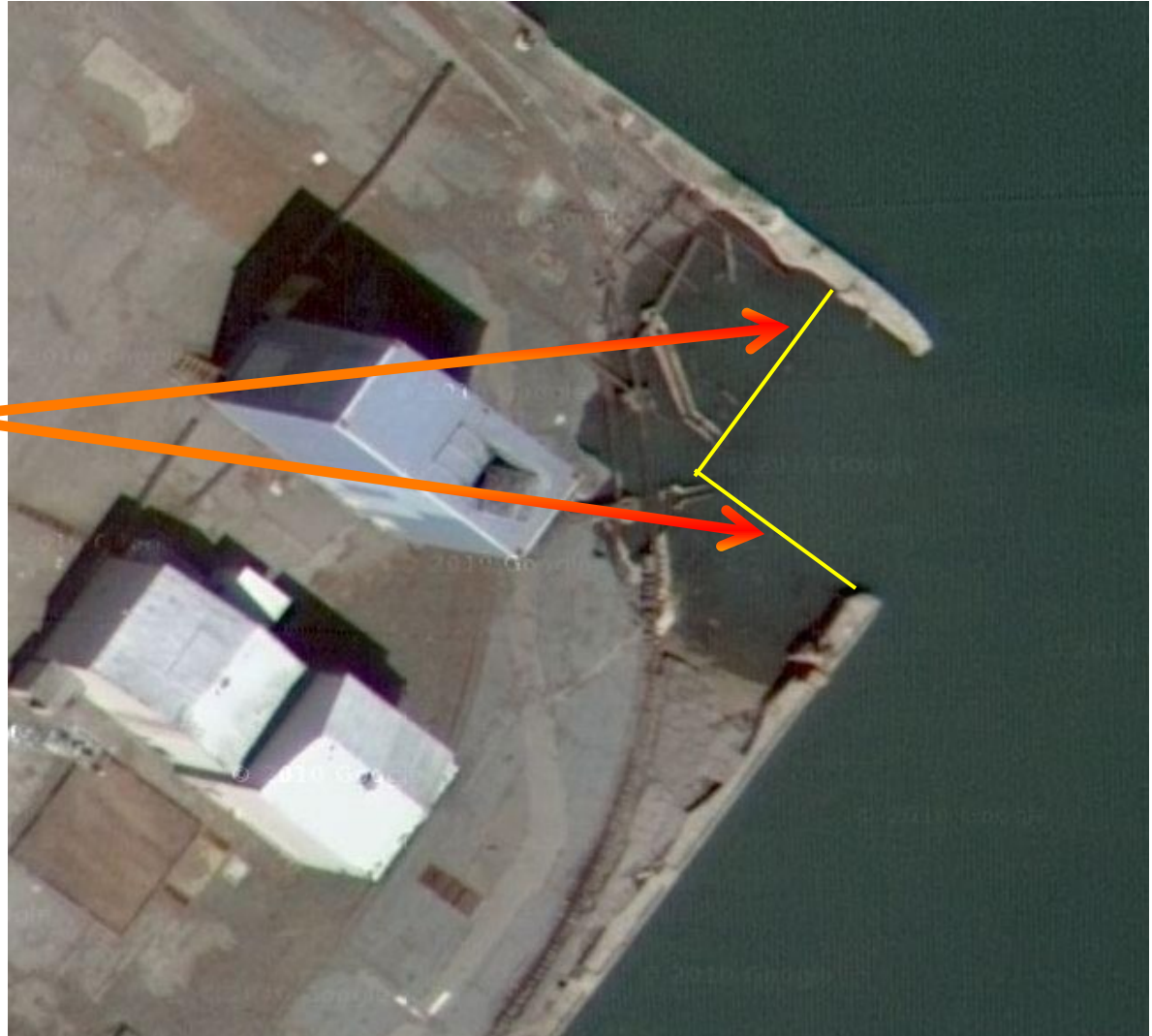


Eastern Seaward Corner



East seaward corner

**Proposed
Sheet Pile
Location**





Southern Seaward Corner

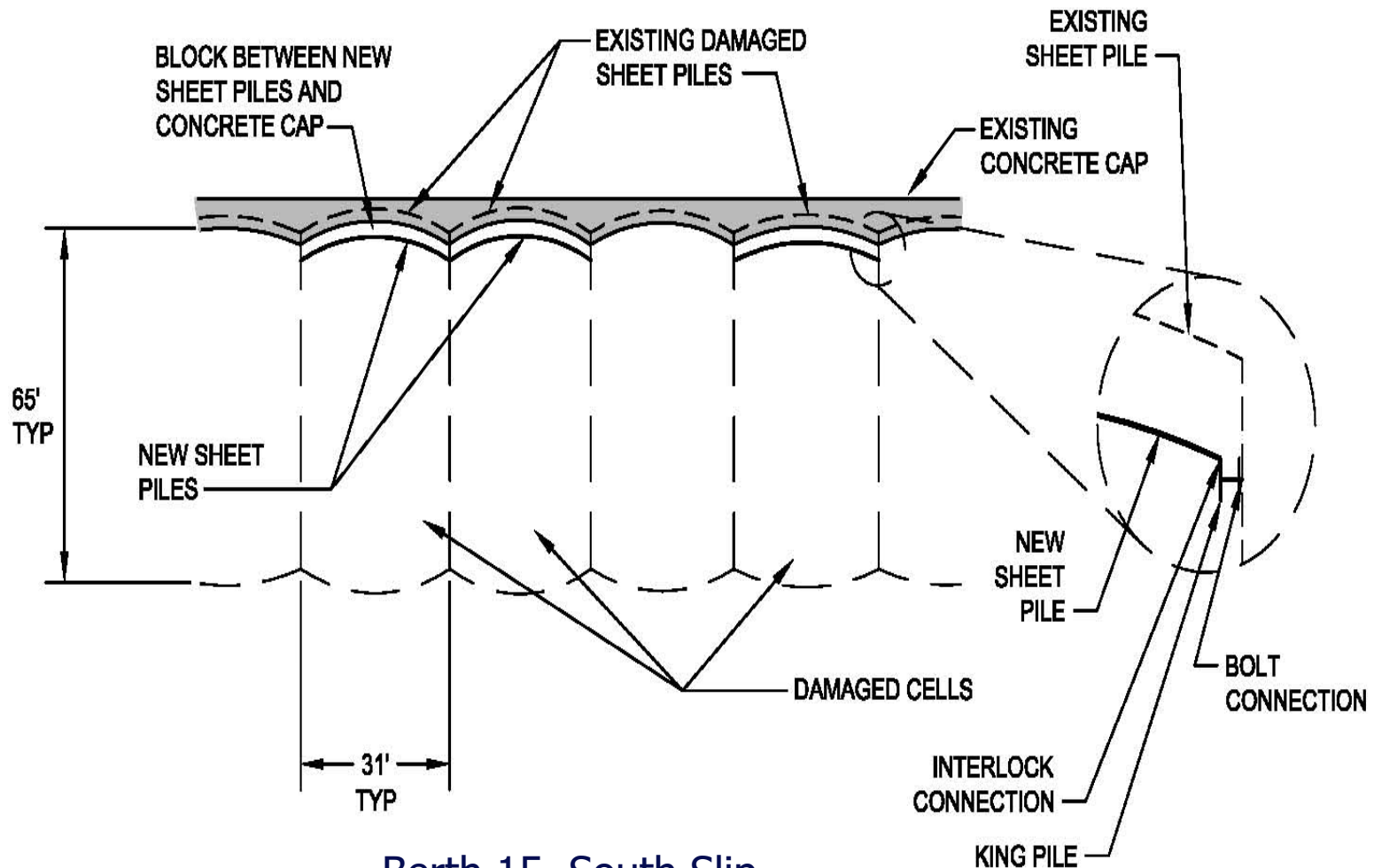


South seaward corner





Pier Stabilization Design Plan View



Berth 15, South Slip



Comments, Questions, Concerns ???